

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

S. KURODA ET AL.

Atty. Ref.: 1035-579

Serial No. To be assigned

TC/A.U.: To be assigned

U.S. National Phase of PCT/JP2003/015003

Examiner: To be assigned

Filed 25 November 2003

For: HOLLOW PROTEIN NANOPARTICLES AND DRUG USING THE SAME

\* \* \* \* \*

March 30, 2005

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

INFORMATION DISCLOSURE STATEMENT

As suggested by 37 C.F.R. 1.97, the undersigned attorney brings to the attention of the Patent and Trademark Office the references listed on the attached form PTO-1449.

- All listed documents are attached.
- Copies of U.S. Patent Publications are not required and are not attached.
- Listed foreign patent publications and other documents are enclosed.
- The listed documents were cited in the ISR and copies should have been supplied by WIPO directly to the US PTO. If copies are not timely received from WIPO, please telephone the undersigned so that copies can be timely supplied for the Examiner's consideration in this US National Phase Application.

This is not to be construed as a representation that a search has been made or that no better prior art exists, or that a reference is relevant merely because cited.

The Examiner is requested to initial the attached form PTO-1449 and to return a copy of the initialed document to the undersigned as an indication that the attached references have been considered and made of record.

S. KURODA ET AL.  
Serial No. To be assigned

10/529749  
JC17 Rec'd PCT/PTO 30 MAR 2005

The undersigned attorney of record hereby certifies under 37 C.F.R. §1.97(e) that each item of information referenced herein and attached hereto was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement.

Respectfully submitted,

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INFORMATION DISCLOSURE CITATION		ATTY. DOCKET NO. <u>1035-579</u>	SERIAL NO. <u>101529749</u> To be assigned
APPLICANT <u>S. KURODA ET AL.</u>			
(Use several sheets if necessary)		FILING DATE <u>March 30, 2005</u>	TC/A.U. To be assigned

## **U.S. PATENT DOCUMENTS**

## **FOREIGN PATENT DOCUMENTS**

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent pages, etc.)**

- 1 "Hepatitis B Virus Envelope L. Protein Particles", Shun'ichi Kuroda et al., The Journal of Biological Chemistry Vol. 267, No. 3 issue of January 25, pp. 1953-1961, 1992 printed in USA.

2 "Production of Hepatitis B virion-like particles in yeast", Kouichi Shiosaki et al, Gene, 106 (1991) pp. 143-149 printed in The Netherlands.

3 "Physicochemical and immunological characterization of hepatitis B virus envelope particles exclusively consisting of the entire L (pre-S1+pre-S2+S) protein", Tadanori Yamada et al, Vaccine 19 (2001), pp. 3154-3163 Printed in England.

4 "Mapping a Region of the Large Envelope Protein Required for Hepatitis B Virion Maturation", Voker Bruss et al., Journal of Virology, March 1994, pp. 1643-1650 Printed in U.S.A.

5. "Both Pre-S1 and S Domains of Hepatitis B Virus Envelope Proteins Interact with the Core Particle", Francis Poisson et al, Virology 228, pp. 115-120 (1997) Printed in U.S.A.

\*Examiner

### Date Considered

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to application.